GENERAL PERMIT REISSUANCE TRACKING SHEET

Facility Nan	ne: Vulcani	Construction	in Materia	alshP-	Jack Quarry	County:	Pinwiddie
Owner:	/ulcan Con	struction 1	naterials	LP	-	Permit #:V	AG84 012 6
						Permit W	riter: OBC/BR/C

	<u>Date</u>
Registration Statement Received (UPDATE CEDS)	5/14/14
Additional Information Requested	77
Additional Information Received	
Fee Deposit Received	3/27/14
Registration Statement Considered Complete	5714/14
Registration Statement to TMDL staff	6/5/14
All Applicable Information entered into CEDS	6/14/14
Application Information Added to General Permit Tracking Spreadsheet	6/16/14

add (1)

	0 0 1	Concurrences		
Signature	O. Critica	E.C. adam	m	,
Date	6/16/14	W30 14		
		. ,		

MEMORANDUM

DEPARTMENT OF ENVIRONMENTAL QUALITY

VALLEY REGIONAL OFFICE

4411 Early Road - P.O. Box 3000

Harrisonburg, VA 22801

SUBJECT:

Registration Statement Errata for VPDES Permit No. VAG840126, Vulcan Construction

Materials - Jack Quarry

TO:

GP File

FROM:

Olive Critzer (New

DATE:

March 25, 2014

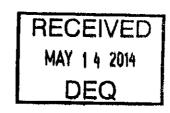
The following deficiency was noted in the subject general permit registration statement:

The facility name is Vulcan Construction Materials – Jack Quarry Our records and the topo map show that the receiving waters is Booth Run

The above deficiency in the registration statement is considered to be insignificant in that it will not affect the reissuance of the general permit.



Ms. Olive B. Critzer Valley Regional Office Department of Environmental Quality PO Box 3000 Harrisonburg, VA 22801



March 17, 2014

RE: Reissuance of Nonmetallic Mineral Mining General Permit No. VAG840126 Vulcan Construction Materials Company – Jack Quarry – Dinwiddie County

Dear Ms. Critzer,

Enclosed, please find the General Permit Registration form and appropriate attachments for the above referenced facility.

We propose no changes to the existing permitted facilities and desire only to obtain a reissuance on the General Permit. Please provide DMR forms for the process water outfall 001 and the representative stormwater outfalls 002 and 008 described in the following enclosures. It should be noted that all process water outfalls do not include discharges from vehicle washing activities or oil water separator discharges; therefore, petroleum hydrocarbon sampling should not be included on the DMR form for each process water outfall.

Thank you for your kind assistance in this matter. If you have any questions and/or comments, please contact Brian Parker of Cardno MM&A at (804) 441-8388 or myself at (804) 717-8374.

Sincerely,

Walter Beck

Environmental Engineer

Water C. Bed II

Enclosures

VPDES GENERAL PERMIT REGISTRATION STATEMENT NONMETALLIC MINERAL MINING

					3 1111111111		MAY 1 A MA		
1.	. Facility Owner: Vulcan Construction Materials, LP C/O Walter Beck								
2.	Owner Mailing address: Street or P.O. Box 5601 Iron Bridge Parkway, Suite 201					201	la - Jan		
	City or Town	Chester	State	Virginia	3	Zip Code	23831		
3.	Owner Telep	hone #: <u>(804)</u> 717-5	770	4. Owne	er Email:	BeckW@VMC	CMAIL.com		
5.	Contact Nam	e: Walter Beck		6. Conta	ct Telepho	one #: (804) 7	17-8374		
7.	Contact Ema	il: BeckW@VMCM	AIL.com						
8.	Facility Name	e: Jack Quarry			ity Lat/Loi -min-sec):	ng 37-11-58	/ 77-30-44		
10.	Facility Addr		oad, Petersburg, VA 238	, ,		37-11-007	11-00-44		
	y	20000 000 110	(County, Street Number		Town, Stat	te, Zip)			
11.	Description o	f mining activity (mir	neral mined):						
	Extraction of	granite and product	on of crushed stone pro	ducts for	the constr	ruction industry	<i>1</i> .		
12.	Primary SIC	code: 1423	See	ondary S	IC codes:				
13.	Does this min	e currently have a VI	PDES permit? Yes	No 🗌	(If yes, give	e permit numbe	er) VAG840126		
14.	Discharge Inf	ormation: PLEASE	SEE ATTACHED O	UTFAL	L DESCI	RIPTIONS			
	OUTFALL OUTFALL TYPE SOURCE OF DISCHARGE RECEI					VING STREAM WETLANDS	M LATITUDE/ LONGITUDE (deg-min-sec)		
		- "							
		-			<u>.</u>				
	Notes: 1. Outfall Type - list as (1) process wastewater, (2) storm water, or (3) process water commingled with storm water. 2. Source of Discharge (If the outfall has a combination of these sources, list all that apply): (1) mine pit dewatering, (2) storm water associated with industrial activity, (3) storm water not associated with industrial activity, (4) ground water infiltration, (5) wastewater from vehicle or equipment degreasing activities, (6) vehicle washing, (7) mined material washing, (8) return water from operations where mined material is dredged, (9) noncontact cooling water, (10) miscellaneous plant cleanup wastewater, (11) co-located facility discharges (identify the co-located facility), (12) emergency outfall for process water systems designed as "no discharge" or (13) other discharges not listed here (describe).								
15.	Is the process	water system designe	ed to operate as "no disch	arge?" \	es 🔲 No	o 🗹 (see instru	ictions).		
	Storm Water: a. Indicate w		ı water outfalls (if any) w	ill be rep	resentative	e outfalls that re	equire a single Discharge		
			ATTACHED OUTFALL L				- •		
	b. For storm	water outfalls which	are to be represented by	other ou	ıtfall disch	arges, attach a	description of the activities		
		torm water discharge					large settling sedimentation		
	d. Storm water pollution prevention plans (SWPPPs) do not need to be submitted with this registration. However, see requirements for development, updating and implementation in instructions below.								

com	If the facility discharges to the Chickahominy watershed above Walkers Dam, provide monitoring data to demonstrate upliance with 9VAC25-260-310 m (Chickahominy special standards) as per Part I B 14 of the 2014 VPDES Nonmetallic peral Mining General Permit (if not already submitted to the Department under a different VPDES permit in a DMR).
18.	Description of wastewater treatment or reuse/recycle systems, or both:
	Solids settling in the pit and/or sedimentation basins prior to discharge
19.	List any chemicals added to water that could be discharged:
	Callaway (4310, 4325, 4330, 4345, 4848, 4880, 3455L, 3477, 3458, 6280), Jayfloc 3475, Rockfloc (3742R, 3746R, 3719R), RockDust (100, 3330), Paschal PFR (C453, F444, F485, C258, P255, D252, D253), Sodium Hydroxide, Hydrated Lime, Sulfuric Acid (20% Baume), Hydrochloric Acid
20.	Indicate any co-located facilities:
	Is this facility a hazardous waste treatment, storage, or disposal facility? Yes No 🗸
opei	Attach to this registration statement a schematic drawing showing the sources of water used for production, the industrial rations contributing to or using water, and the conceptual design of the methods of treatment and disposal of wastewater solids. Identify outfall numbers listed in item 14 above.
drai expo	Attach to this registration statement an aerial photo or scale map which clearly shows the property boundaries, plant site, nage areas associated with each outfall, locations of all mine pit dewatering, existing, significant sources of materials used to precipitation, storm water management structures (if any), storm water or process wastewater outfalls listed in 14 above and the receiving streams.
whic asso own	Attach to this registration statement evidence that the operation to be covered by this general permit has a mining permit ch has been approved by the Virginia Department of Mines, Minerals and Energy, Division of Mineral Mining (or ciated waivered program) under the provisions and requirements of Title 45.1 of the Code of Virginia. Mineral mines ed and operated by governmental bodies not subject to the provisions and requirements of Title 45.1 of the Code of this requirement.
	Mining Permit No.: 05727AE
25.	Does the facility discharge storm water into a Municipal Separate Storm Sewer System (MS4)? Yes No 🗸
	If yes, provide name of the MS4 operator
26.	Would you like your permit sent to you electronically? Yes No ✓
	If yes, please list the email address to send it to: Prefer hard copy; If possible, also email to BeckW@VMCMAIL.com
	tification: "I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penaltics for submitting false information including the possibility of fine and imprisonment for knowing violations."
	Signature: Water C. Bed II Date: 3/17/2014
	Print Name Walter C. Beck III Title: Environmental Engineering
-	uired attachments: 1. Evidence of approved mining permit 2. Water use schematic drawing 3. Aerial photo or map
FOR	R DEPARTMENT USE ONLY:
	cepted/Not Accepted by: 13 Ad River Date: 6/26/14 sin Stream Class 11 Section 5
Bas	R DEPARTMENT USE ONLY: cepted/Not Accepted by: Balance Balance
Sne	ecial Standards TMDL Compliance Voc

SECTION 5.0 DISCHARGE SAMPLING AND ANALYSIS

The General Permit requires sampling and analysis of point source discharges that fall in the following categories.

Mine dewatering and/or discharges of process wastewater, including commingled stormwater.

Stormwater discharges from other plant areas where the stormwater has contacted areas directly related to manufacturing, processing, or raw materials storage.

5.1 Process Water and Stormwater Sampling/Analysis Program

Refer to Table 1 for required sample frequency and analytical parameters. There are three appropriate sampling locations at the Jack Quarry which will be used to sample various process water and stormwater discharges. Each outfall to be sampled is listed below along with a brief description of each outfall's type of discharge.

Representative Outfalls to be Sampled:

Outfall No.	Latitude / Longitude	Receiving Stream	Outfall Type	Source of Discharge
333-001	37° 11' 58" / 77° 30' 44"	Booth Run Creek	Commingled Process Water and Stormwater	Mine pit dewatering
333-002	37° 11' 56" / 77° 30' 49"	Booth Run Creek	Stormwater	Stormwater associated with industrial activity. This sample location will be representative of all discharges from stripping and overburden disposal areas and associated mine roads.
333-008	37° 11' 48" / 77° 30' 47"	Booth Run Creek	Stormwater	Stormwater associated with industrial activity. This sample location is representative of all discharges from yard and material stockpile areas.

Note: There are a total of nine discharge points (8 Stormwater, 1 process water) at the Jack Quarry site.

Mine dewatering flows and runoff from yard and process areas which drain to the pit are pumped from the pit to a tertiary pond at outfall 333-001 and, from there, discharge to Booth Run Creek which flows to the Appomattox River.

Outfalls 333-002 and 333-003 are discharge points for runoff from an overburden & fines disposal area which does not drain to the pit. Outfalls 333-004, 333-005, and 333-006 are planned discharge points for runoffs from the expanded overburden disposal areas and mine roadways leading to these areas. Outfall 333-011 will be a discharge point for discharges from pit stripping areas. Outfall 333-002, which recieves most of the runoff from overburden disposal areas, has been selected as the representative sampling point for this type of stormwater discharge. Outfall 333-007 no longer discharges due to grading on site; this outfall has been deleted from the permit.

Outfall 333-008 is representative outfall for yard and material stockpile areas runoff. This outfall sample point will represent outfall 333-009, which is a discharge point for a small portion of land around the employee buildings to the east. These discharge points release stormwater mostly from standard yard stormwater runoff. Outfall 333-010 has been removed from site due to outfall no longer discharging off property.

The following table summarizes the total additional outfalls at this site which will not require sampling. The aforementioned outfalls that will be sampled have been linked to the following outfalls based on the overall type of discharge each additional outfall will represent. All outfall locations are indicated on the partial mine map in Appendix I.

Remaining Outfalls (not to be sampled):

Outfall No.	Latitude / Longitude	Receiving Stream	Outfall Type	Source of Discharge	Corresponding Representative Outfall*
333-003	37° 12' 07" / 77° 30' 45"	Booth Run Creek	Stormwater	Stormwater discharge from stripping and overburden disposal areas.	333-002
333-004	37° 12' 04" / 77° 30' 42"	Booth Run Creek	Stormwater	Stormwater discharge from stripping and overburden disposal areas.	333-002
333-005	37° 12' 27" / 77° 30' 45"	Booth Run Creek	Stormwater	Stormwater discharge from stripping and overburden disposal areas.	333-002
333-006	37° 12' 36" / 77° 29' 59"	Booth Run Creek	Stormwater	Stormwater discharge from stripping and overburden disposal areas.	333-002
333-009	37° 12′ 02" / 77° 30′ 10"	Tributary to Offsite Pond	Stormwater	Stormwater discharge from yard and materials stockpile areas.	333-008
333-011	37° 12′ 14" / 77° 29′ 43″	Tributary to Cattail Run	Stormwater	Stormwater discharge from stripping and overburden disposal areas.	333-002

^{*}Listed representative outfall is the appropriate sample point designated for that type of discharge; no grab sample needs to be taken for these additional listed outfalls.



COMMONWEALTH OF VIRGINIA DEPARTMENT OF MINES, MINERALS AND ENERGY DIVISION OF MINERAL MINING P.O. BOX 3727 CHARLOTTESVILLE, VIRGINIA 22903-0727 (434) 951-6310

PERMIT/LICENSE TO OPERATE A MINE

Permit/License No. 05727AE

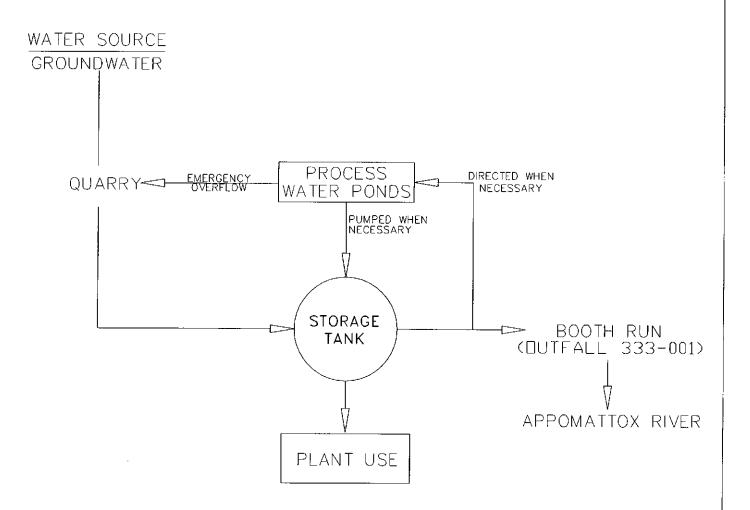
Was issued to VULCAN CONSTRUCTION MATERIALS LP - JACK QUARR Whose main office is located at (MIDEAST DIVISION) CHESTER, VA 23831

For type of mineral(s) GRANITE
Mine Type QUARRY Exemption Type N/A
Located at 6 MILES SW OFPETERSBURG ON RT 226
County of DINWIDDIE

THIS PERMIT IS ISSUED PURSUANT TO CHAPTER 14.1 AND 16, TITLE 45.1, CODE OF VIRGINIA(1950), AS AMENDED Being an Act to require permits/licenses for certain mining operations and to fix conditions for issuance thereof; to provide that certain safety and reclamation practices be performed by mine operators and for inspection thereof; and to advise on satisfactory compliance; to require an annual report on progress of reclamation and tonnage of mineral mined; to provide for the Director to seek injunctive relief; to provide for a Board of Surface Mining Review, a Board of Mineral Mine Examiners, and to provide for appeals from rulings, violations and decisions of the Department or associated Boards.

Issued JANUARY 21 2004 Covering 686.71 ACRES. Receipt number 25289

THIS PERMIT/LICENSE MUST BE POSTED NEAR THE MINE OFFICE

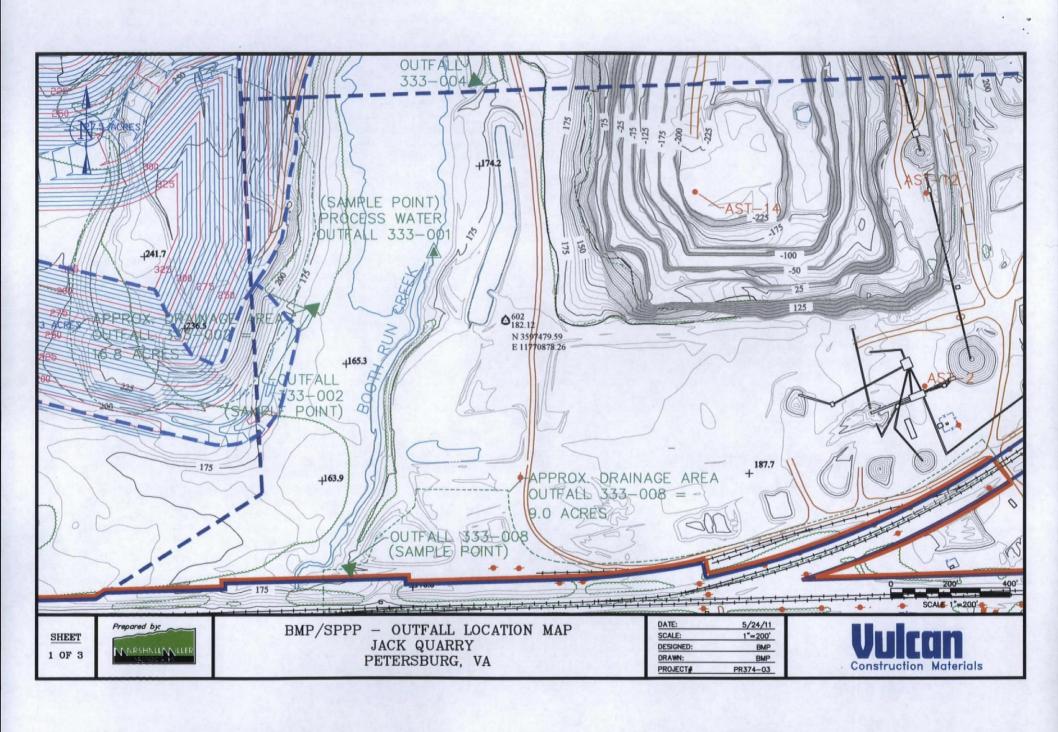


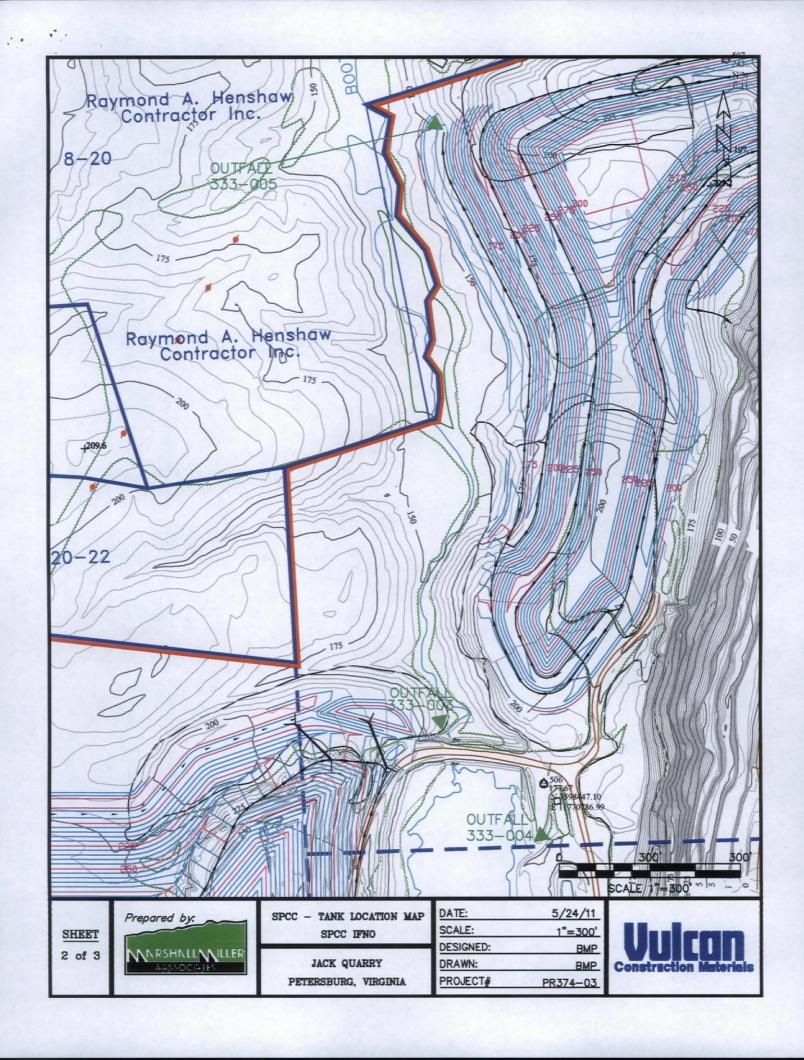
DRAWING NOT TO SCALE

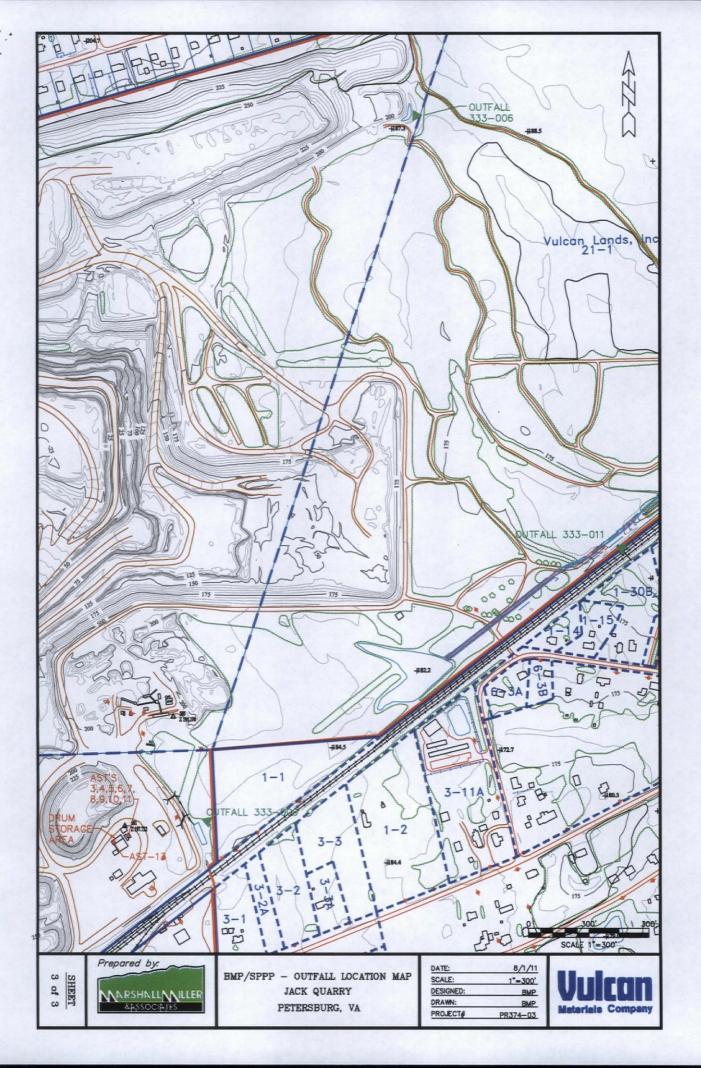


WATER FLOW SCHEMATIC JACK STONE QUARRY DINWIDDIE, VA OCTOBER 2008









	rly Road		D. Box 3000	UALITY - Valley Region Harrisonburg,	
SUBJECT:	Reissuance of V Quarry	PDES Permit N	Jo.VAG840126, Vu	lcan Construction Materials	LP-Jack
TO:	Jennifer Palmor				
FROM:	Olive Critzer (Plive			
DATE:		ine 5, 2014			
Receiving St Waterbody L Latitude/Lon Location:	D: VAV-Hi ngitude: 37 11 5	39R			
Based on the please provice	outfall location id le me with the foll	entified on the a	attached topographic	e map and based on the info	rmation above
1. Does the water for EPA? N	facility discharge which a TMDL w	to an impaired v aste load alloca	vater or to an unnan tion has not been es	ned, unimpaired tributary of tablished by the board and a	an impaired approved by
If Yes, gi	ve the name of the	impaired water	••		;
	Impair	nent	Pollutant ca	using the impairment	
				Y/N	
				Y/N	
				Y/N	
2. Does any	approved TMDL	impose limits o	n discharges from th	nis facility? Y	
If Yes:		· .			
	TMDL Po			ty discharge the TMDL oollutant?	
	Chesapeake Bay TN, TP, and TS	8		Y	
	Appomattox Bas TMDL – E. coli addressed			N	
				Y/N	
Check if appl	licable:				_
expec	facility was not incept ted to cause water ared to the TMDL.	quality violatio	IDL; however, the a	ddition of this point source ents an insignificant load (le	is not ess than 1%)
☐ This f	acility was include	ed in the Sedime	ent TMDL for		
				(stream name)	
and w	as given an alloca	tion based on a	TSS concentration o	of mg/L.	

Critzer, Olive (DEQ)

From:

Brian Parker [Brian.Parker@cardno.com] Wednesday, May 14, 2014 10:55 AM

Sent: To:

Critzer, Olive (DEQ)

Subject:

Updated renewals for Jack and Richmond Quarry

Attachments:

Jack 2014 VPDES renewal update.pdf; Richmond 2014 VPDES renewal Update.pdf

Olive – see the attached pdf packages for Jack Quarry and Richmond Quarry. As noted over the phone, Jack is adding outfall 011 and Richmond is updating the process water discharge receiving stream to Goodes Creek.

Please feel free to call me if you have any questions.

Brian Parker, P.E. MINING ENGINEER CARDNO MM&A



Shaping the Future

Phone +1 804 798 6525 Fax +1 804 496 5825 Direct +1 804 441 8388 Mobile +1 804 338 2010 Address 10988 Richardson Road, Ashland, VA 23005, United States Email Brian.Parker@cardno.com Web www.cardno.com - www.cardnomma.com

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